

REMARKS/ARGUMENTS

In response to the Examiner's final Office Action of November 1, 2007 the Applicant respectfully submits the accompanying Amendment of the claims and the below Remarks.

Regarding Amendment

In the Amendment:

claim 14 is amended to clarify that a mean azimuth is determined for all of the sampled points and is then subtracted from the azimuth of each sampled point. Support for this amendment can be found in paragraphs [037]-[039] of the present specification; and

claims 17-27 are unchanged.

It is respectfully submitted that the Amendment does not add any new matter to the present application.

Regarding 35 USC 103(a) Rejections

It is respectfully submitted that the subject matter of amended independent claim 14, and claims 17-27 dependent therefrom, is not taught or suggested by previously cited Ikebata or Parthasarathy in view of newly cited Gierhart et al. (US 5,730,602), for at least the following reasons.

Amended independent claim 14 clearly recites that all has of the sampled points are used to determined the mean azimuth and then this mean azimuth is subtracted from the measured azimuth at each sampled point to estimate the orientation (see paragraphs [037]-[039] of the present specification).

On the other hand, Gierhart specifically discloses an arrangement in which a moving average pen tilt azimuth is used to determine the azimuth variance by subtracting the moving average from the current value (see col. 17, lines 54-64). Thus, in any combination of Gierhart, Ikebata, Parthasarathy and Fox, a moving average would be used and any variance values determined would be based on this moving average.

Accordingly, since one of ordinary skill in the art understands that such a moving average is not the same as mean value, it is clear that the subject matter of amended independent claims 14, and claims 17-27 dependent therefrom, is not taught or suggested by Gierhart, Ikebata, Parthasarathy and Fox either taken alone or in combination with one another.

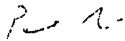
It is respectfully submitted that all of the Examiner's rejections have been traversed. Accordingly, it is submitted that the present application is in condition for allowance and reconsideration of the present application is respectfully requested.

Very respectfully,

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